[ANARTS - Australian National Amateur Radio Teletype Society]
ANARTS News Bulletin 911 2nd JUNE 1996
[Double-spaced, because that's how it arrived; I haved asked them
  on NUMEROUS occasions to fix this!]

This is the Australian National Amateur Radio Teleprinter Society
with our weekly RTTY broadcast.
If you would like to receive the broadcast live, you can do so by
tuning in on the following frequencies and times.

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  3.545 MHz (Plus/minus 5)   0930 UTC     VK2CTD COL
  7.045 MHz  -3              0030 UTC     VK2CTD COL
 14.070 MHz (amtor/fec)      0030 UTC     VK2DPM ALAN
 14.091 MHz                  0030 UTC
146.675 MHz             0030/0930 UTC     VK2JPA (PAT)
144.850 MHz (ax25 bbs)                    VK2JPA AT VK2WI
146.675 MHz (rtty mmbbs/repeater)         VK2RTY

        INTERNET         RADIO-INFO-DIST AT UCSD.EDU
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A.N.A.R.T.S. News Bulletin 911 2nd JUNE 1996

ANARTS MEETING

ANARTS NEXT MEETING WILL BE ON FRIDAY 7TH JUNE AT THE USUAL VENUE AND COMMENCING AT 7.30 PM. FOR FURTHER INFORMATION CONTACT COL VK2CTD QTHR OR PACKET TO VK2CTD AT VK2DAA; OR PAT VK2JPA, FAX : 672 3392, OR PHONE : 230 3722 (WORK).

COL'S COLUMN

ITS THAT TIME OF THE YEAR AGAIN. 'WHAT TIME' I HEAR YOU SAY!!. ITS THE ANARTS WORLD WIDE RTTY CONTEST TIME. ITS ON NEXT WEEKEND AND I AM HOPING FOR A GREAT EFFORT FROM ALL YOU LOVELY PEOPLE IN THE VK RTTY-LAND.

THE REASON FOR THE HOPED FOR EFFORT IS THAT OUR CONTEST IS THOUGHT OF VERY HIGHLY BY OVERSEAS STATIONS, CONTEST MANAGER JIM VK2BQS HAS CALCULATED THAT UPWARDS OF FOUR OR FIVE HUNDRED STATIONS ACTUALLY TAKE PART IN THE CONTEST, WITH OVER FIFTY ACTUALLY SUBMITTING A CONTEST LOG. JIM MAKES THIS CALCULATION BY THE DIFFERENT CALLSIGNS WORKED IN THE LOG. A LOT OF OVERSEAS STATIONS MAKE COMMENTS AT THE END OF THEIR LOG, MOST OF THEM VERY FAVOURABLE TO ANARTS AND AUSTRALIA. HOWEVER A LOT OF STATIONS NOTE THE LACK OF AUSTRALIAN AMATEURS TAKING PART.

YOU SEE, WHEN AN OVERSEAS STATION QSO'S WITH A VK CALL, IT IS AWARDED WITH BONUS POINTS. IF YOU COULD FIND IT IN YOUR HEARTS TO ANSWER A FEW CQ CONTEST CALLS I WOULD BE ETERNALLY GRATEFULL, YOU DO NOT HAVE TO SUBMIT A LOG (THOUGH THAT WOULD BE GREAT TOO), JUST GIVING A REPORT TO A FEW STATIONS WOULD BE ENOUGH. SEE IF YOU CAN BEAT NORMAN VK6GOM AND PETER VK6APW WHO WORKED TOGETHER IN THE MULTI OPERATOR SECTION LAST YEAR AND WERE WORLD WIDE WINNERS, AND RECEIVED A NICE PLAQUE FOR THEIR EFFORTS.

THE CONTEST COMMENCES 0000UTC SATURDAY 8TH JUNE AND CONCLUDES 0000UTC 10TH JUNE. QSO MESSAGE SHOULD CONTAIN. RST, TIME UTC AND YOUR CQ ZONE. IF ANY STATION REQUIRES A COPY OF THE RULES SEND A PACKET TO JIM VK2BQS AT VK2CZZ, OR TO ME VK2CTD AT VK2DAA.

HOPE YOU ENJOY THE CONTEST AND HOPE TO HEAR YOU ON THE AIR.
73S FROM COL VK2CTD PRESIDENT OF ANARTS.

G-TOR!!!WHAT'S THAT. DE VK2BOD

G-TOR IS NOW STANDARD IN THE KAMPLUS (VERSION 7.0P) AND ENHANCEMENT BOARD FOR THE KAM(VERSION 7.0E). IT IS ALSO AVAILABLE AS AN EPROM UPDATE WITH SUPPLEMENTAL MANUAL DOCUMENTACION FOR BOTH THE KAMPLUS AND THE ENHANCEMENT BOARD. INSTALLATION OF THE ENHANCEMENT BOARD IS REQUIRED TO UPDATE THE KAM TO INCLUDE G-TOR.

G-TOR COMBINES A VARIETY OF SIGNAL PROCESSING TECHNIQUES IN A UNIQUE WAY WHICH DRAMATICALLY INCREASES THROUGHPUT. G-TOR CAN RELIABLY TRANSMIT DATA MORE THAN TWICE AS FAST AS PACTOR IN MOST BAND CONDITIONS.AND, WHEN THE CHANNEL IS NOISY OR UNSTABLE, G-TOR MAY TRANSMIT DATA NEARLY FOUR TIMES FASTER THAN OTHER MODES BECAUSE IT IS RELATIVELY UNAFFECTED BY THESE CONDITIONS.
G-TOR, SHORT FOR GOLAY-TOR, WAS NAMED FOR M.J.E. GOLAY'S ERROR CORRECTION CODE,WHICH WAS USED BY VOYAGER TO TRANSMIT ERROR-FREE COLOR IMAGES FROM JUPITER AND SATURN. THIS CODING SCHEME PROVIDES THE BASIS OF G-TOR. G-TOR FAST, ERROR-FREE DATA TRANSMISSION CAPABILITIES CAN BE ATTRIBUTED TO THE UNIQUE COMBINATION OF SEVERAL TECHNIQUES INCLUDING:

1)FULL FRAME DATA INTERLEAVING,
2)ON-DEMAND HUFFMAN COMPRESSION
3)RUN-LENGTH ENCODING,
4)VARIABLE BAUD RATE CAPABILITY,
5)16-BIT CRC ERROR DETECTION WITH HYBRID ARQ AND
6)GOLAY FORWARD ERROR CORRECTION CODING.TOGETHER IN G-TOR, THESE TECHNIQUES COMBINE TO PROVIDE FAST, ERROR-FREE DATA TRANSMISSION IN A MODE THAT RESISTS INTERFERENCE AND REDUCES MULTI-PATH EFFECTS.

TO PROTECT DATA FROM NOISE BURSTS DURING TRANSMISSION, G-TOR MAKES USE OF A CONCEPT KNOWN AS INTERLEAVING, SIMILAR TO THE APPROACH USED IN THE AUDIO COMPACT DISC. THROUGH INTERLEAVING, THE BITS OF EACH DATA CHARACTER ARE DISPERSED ACROSS THE FRAME AND THEN REARRANGED UPON RECEPTION. THEREFORE, IF A BURST ERROR OCCURS ON THE HF CHANNEL,THE DAMAGE WILL BE SPREAD OUT INTO SMALL PIECES ACROSS THE ENTIRE FRAME RATHER THAN MUTILATING LARGE, NON-RECOVERABLE SECTIONS. USUALLY ONLY ONE OR TWO BITS OF A SEGMENT WILL BE DAMAGED, MAKING THE ENTIRE TRANSMISSION EASILY RECOVERABLE.

AT THE SAME TIME,FOR FAST AND EFFICIENT TRANSFER, DATA IS CONDENSED THROUGH HUFFMAN COMPRESSION AND RUN-LENGTH ENCODING. EACH METHOD MAY TRANSLATE DATA INTO CODES SHORTER THAN REQUIRED BY THE ORIGINAL INFORMATION.

TO BE CONTINUED

WEEKLY SOLAR AND GEOPHYSICAL REPORT

(24 MAY - 30 MAY)

ISSUED ON 31 MAY 1996

SUMMARY

Date	24	25	26	27	28	29	30
10cm	67	67	67	67	66	66	67
A	8	7	6	8	5	11 (	9 ESTIMATED)
T	8	6	4	0	1	0	5

SOLAR ACTIVITY WAS VERY LOW DURING THE PERIOD.

THE GEOMAGNETIC FIELD AT LEARMONTH W.A. WAS QUIET ON 28TH, MOSTLY QUIET ON 29TH, AND QUIET TO UNSETTLED OVER THE REMAINDER OF THE WEEK.

MAXIMUM USABLE FREQUENCIES AT SYDNEY WERE NEAR PREDICTED VALUES ALL WEEK. SPREAD F WAS OBSERVED DURING LOCAL NIGHT ON 28TH AND 29TH MAY.

FORECAST (31 MAY - 06 JUNE)

SOLAR: VERY LOW

GEOMAGNETIC: QUIET TO UNSETTLED

FREQUENCIES: NEAR PREDICTED MONTHLY VALUES

COURTESY OF IPS RADIO AND SPACE SERVICES

VK2SG RTTY DX NOTES FOR WEEKENDING 24 MAY 96 (BID RTDX0524)

OUR INFORMATION THIS WEEK CAME FROM: AA5AU, DJ3IW AND THE CENTRAL EUROPE CLUSTER DB0SPC, I5FLN AND THE IK5PWJ PACKET CLUSTER, OH2LU, W2JGR AND THE NJ0M NODE THE TWIN-CITIES DX PACKET CLUSTER, W5KSI AND ZS5S.

THANK YOU ALL FOR YOUR ASSISTANCE.

BANDPASS
FRIDAY 17
0805-14082 TR9DF
1512-14084 J28JJ
1649-14091 YI1RS
1655-14083 VU2AVG
1655-14086 BV7WZ
2020-14087 CE9BAE
2221-14082 XE3ARV
2234-14082 HAM2VB

SATURDAY 18
0829-14088 EG3ITU
1429-14084 3A2LZ
1556-14091 V85GA
1627-14085 SU1ER
1632-14086 VU2AVG
1644-21085 CX9BAE
1702-14082 9Q5PA
1718-14084 ZB2/DL7CM
1748-21083 CX9BAE
1841-14085 CN8GB
1932-14082 9Q5PA
2042-14084 EA6BH

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2059-14085  HAM5BSW
2158-14084  EA9JZ
2201-14082  EA6BH
2158-14084  EA9JZ
2231-14089  CP1PY
2318-14079  XE3ARV
2331-14088  ZB2/DL7CM
2333-14080  PJ2MI
2323-14085  AC96DO

SUNDAY 19
0628-14086  SV1ADG
0734-14082  YI1RS
1829-14084  9Q5PA
1911-14083  9Q5PA
2015-14085  KP2BH
2021-14084  ZF2PA QSL W5ZPA
2052-14085  EG3ITU QSL EA3NB
2055-14087  UA2AO
2106-14082  KH6DRT
2107-14089  LU9VBR
2141-14086  GW5NF
2143-14084  UA2AO
2144-14084  ZF2PA

MONDAY 20
0817-14082  YI1RS
1354-14086  CN8LI
1439-14084  SV1CDN/3
1746-14084  ZF2PA
2023-14088  CN8GB
2031-14082  CP1PY
2037-14082  SV3YY
2116-14085  ZF2PA
2134-14088  EA9JZ
2158-14079  HP1DGX

TUESDAY 21
0231-14083  XE3ARV
1134-14084  ZF2PA
1233-14084  ZF2PA
1615-14087  HAM5DU

WEDNESDAY 22
0258- 7085  ZF2PA
0623-14082  YI1RS
1238-14084  ZF2PA
1241-14082  ER3KS
1433-14082  JX7DFA
1516-14084  JX7DFA
1540-14083  VU2AVG
1616-14086  YI1RS
1902-14086  UR5EDU
1621-14084  4Z5IO
2016-14086  EA9JZ
2112-14081  IG9/I0IA
2153-14082  CX9BAE
2211-14087  EA9JZ

THURSDAY 23
0340-14086  KH6DRT
0925-14087  UA0AV
1243-14087  IH9/OK1DIX
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THE VK2SG RTTY DXNOTES ARE ALSO AVAILABLE ON INTERNET AT
REFLECTORS DXVE7TCP.AMPR.ORG, AND DIGITAL-DXST.RIM.OR.JP.
SEE ALSO THE OH2BUA WEBCLUSTER AT URL
HTTP://WWW.CLINET.FI/JUKKA/WEBCLUSTER.HTML

FOR NEXT WEEK'S BULLETIN SEND YOUR BANDPASS TO
JULES, W2JGR AT W5KSI.#NOLA.LA.USA.NA

REMEMBER, DX DON'T SLEEP.
GL DE BOB, WB2CJL AT W5KSI.#NOLA.LA.USA.NA

ARLD026 DX NEWS - EXCERPTS

THIS WEEK'S BULLETIN WAS MADE POSSIBLE WITH INFO PROVIDED BY CT1ENQ, CT1EEB, CT1FUF, THE NORTHERN PORTUGAL DX GROUP, HAMAD, 9K2HN, GARY, NH2G, FRANK, AH0W/OH2LVG, UWE, DL9GOA, BOB, DL7VOA, TED, NH6YK, RAMON, XE1KK, AND CONTEST CORRAL FROM QST. THANKS TO ALL.

ANNOBON ISLAND, 3C0. TEO, EA6BH, PLANS TO RETURN TO EQUATORIAL GUINEA AND OPERATE FROM THIS ISLAND, TOO.

COMOROS, D6. DL4XS, DL6ET AND DL3KDV PLAN AN ALL BAND EFFORT, INCLUDING 160 METERS, FROM AUGUST 22 TO SEPTEMBER 4.

ETHIOPIA, ET. PETER, ET3BN, HAS BEEN ON 20 METER RTTY, USUALLY FROM 1800 TO 1900Z ON 14085 KHZ. QSL TO PO BOX 150194, ADDIS ABABA, ETHIOPIA.

MEXICO, XE. RAMON, XE1KK, HAS PUT A BEACON ON 50.0225 MHZ, LOCATED IN GRID EK09IK. IT IS REPORTEDLY THE ONLY SUCH BEACON IN THE FIRST CALL AREA OF MEXICO. XE1KK/B RUNS 20 WATTS TO AN OMNI-DIRECTIONAL ANTENNA. LISTEN FOR T T T DE XE1KK/B EK09. RAMON WELCOMES RECEPTION REPORTS.

MINAMI TORISHIMA, JD1. JG8NQJ/JD1 HAS WRAPPED UP OPERATIONS BUT WILL RETURN FOR A THREE MONTH STAY STARTING JULY 15. QSL VIA JA8CJY.

JAN MAYEN, JX. LA7DFA IS ACTIVE ON 14008 KHZ CW SIGNING JX7DFA. LISTEN FOR HIS 20 METER RTTY FROM 1000 TO 1400Z FRIDAYS.

DODECANESE, SV5. MANFRED, DL8SET, WILL BE QRV JUNE 6 TO 20 ON 20 TO 6 METER CW AND SSB. QSL VIA DL8SET.

CORSICA, TK. FALK, DK7YY, EX DL7UTA, WILL BE ACTIVE AS TK/DK7YY THROUGH MAY 30. HE WILL BE IN THE WPX CONTEST USING 100 WATTS TO A VERTICAL. BEFORE AND AFTER THE CONTEST HE WILL CONCENTRATE ON THE WARC BANDS, AND IF CONDITIONS PERMIT, 10 METERS.

TOGO, 5V. ROY, DL7UBA, AND LARS, DL7ALM, WILL BE QRV FROM JUNE 3 TO 18. THEY HOPE TO OBTAIN THE CALLS 5V7HR AND 5V7ML, RESPECTIVELY, ON ALL BANDS, CW AND SSB. QSL VIA HOME CALLS.

SAINT KITTS, V47. JIMMY, W6JKV, AND MIKE, K6MYC, WILL ARRIVE ON THE ISLAND THE NIGHT OF JUNE 29 AND DEPART ON JULY 9. THEY PLAN TO OPERATE EME ON 50.144 AND 432 MHZ. SIX METER SPORADIC E IS ALSO ON THEIR AGENDA, AS WELL AS TWO METER E-SKIP TO

EUROPE WITH THEIR EME ARRAY.

DOMINICAN REPUBLIC, HI. FRANK, DL5PV, IS ON 17, 20 AND 30 METERS SIGNING DL5PV/HI7. QSL VIA DL5PV.

COMING EVENTS

JUNE	7TH	ANARTS MEETING
	8TH-9TH	ANARTS WW DIGITAL CONTEST

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President(Col) VK2CTD at VK2DAA, or the Secretary (Pat) VK2JPA at VK2WI.

News items may be sent to Broadcast Officer PO Box 60 Blacktown 2148 Australia, or fax to (02) 672-3392, or by packet to VK2JPA at VK2WI.

Email address for the Broadcast Officer is :

patl(at)pitt.conmusic.su.oz.au
or patl(at)extro.ucc.su.oz.au

The Society welcomes news items on any digital subjects from anywhere in the broadcast coverage area. We are looking for-ward to news from your areas to let other amateurs know what you are doing in the hobby. Hope to hear from you.

73s de Pat VK2JPA Broadcast Officer
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Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2DAA.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99